





### **PAGER** Version 4

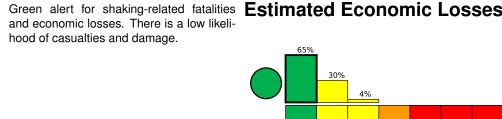
Created: 3 weeks, 6 days after earthquake

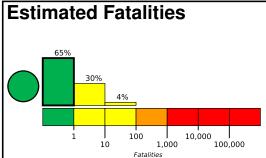
## M 4.2, 5 km SW of Isleton, CA

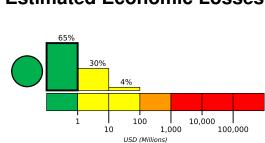
Origin Time: 2023-10-18 16:29:14 UTC (Wed 09:29:14 local) Location: 38.1365° N 121.5824° W Depth: 10.0 km

**Estimated Fatalities** 100 10,000 100,000 1,000

and economic losses. There is a low likeli-



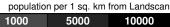




**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k=x1000)		3,746k*	12,031k	72k	6k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.



Date	Dist.	Mag.	Max	Shaking		
(UTC)	(km)		MMI(#)	Deaths		
2003-12-22	283	6.6	VI(8k)	2		
1980-01-24	48	5.8	VII(35k)	1		
1989-10-18	115	6.9	VIII(109k)	62		

# Selected City Exposure

bold cities appear on map.

(k = x1000)

Population I	Exposure
--------------	----------

			100	F00 -			10000	Stru	cture	•			
0	5	50	100	500	1000	5000	10000				ation i	n thic rogio	n resides in
	<u> </u>	6°W	4.	L21.2 ° W	1	119.	9°W /						ake shaking,
1	Jea		Chico				1.43						
		1000		One-		, 15   18	W						predominant
F 186		214	-	PRIS.		- 148	Reno						ced brick ma-
39.4°N			82.1				Mary and	sonry	and reir	norce	ı maso	nry construc	cuon.
	1.1				7 2 med	787	1						
	Total	1			e <sup>ll</sup>	2.	36	Historical Earthquakes					
1 1	W 27	A 1	Yui	na City	to a	$-3C_{\rm P}$	<b>A</b>						
	W 15	E )	25. 美数			1. 1/4	(129) 1800 -	Date		Dist.	Mag.	Max	Shaking
		k A	- 19 May 25	- 1		- 5	(M)	(UTC	<b>3</b> )	(km)		MMI(#)	Deaths
1		E 1		Roseville		2.29		2003	-12-22	283	6.6	VI(8k)	2
	Take.		10 mm			250	- 1	1980	-01-24	48	5.8	VII(35k)	1
			- 4	Sacramen to				1989	-10-18	115	6.9	VIII(109k)	62
	C.S.	anta Rosa		Elk Grove		Jan 1	*	Rece	nt earth	quake	s in th	is area have	caused
		1 14		EIR GIOVE	Mark III			secor	ndary ha	azards	such	as landslide:	s and lique-
38.2 ° N		7	Fairficid	No. Migha 22		#		factio	n that m	night h	ave co	ontributed to	losses.
				4 15 2			_			•			
		$\mathcal{X} \mathcal{F}$	A COPY	1	17,74	West Control							
		155		Stockton	12. 7	THE STATE OF THE S							
		Sen I	Francisco	Manteca	a A	N.	1 4	مام	cted (	City	Eync	SIIFA	
		3010	Halleland	THE PRODUCT	F	\$ 70	J157	Selected City Exposure from GeoNames.org					
		1 Page 1	Fremont	Mo	desto	The sale		ММІ					Population
		5	Hilefilonic		6 <i>)</i>		Do .	V	Rio Vis	ta			7k
			San Jose		To be an	UE (7749)	1 Bak. 1	IV	Bethel				2k
		ALC:	ganjose		N	erced	100	IV	Walnut	Grove	)		2k
37.1°N		6	Service Same	1	100		All and a second	IV	Oakley				35k
37.1		1		1 30		1000		IV	Knights				2k
			a	all a	b Wile .		a property of the same	IV	Brentw				51k
A STATE OF THE PARTY OF THE PAR				4	Section 1		and the same	II	San Fr		СО		805k
1000	<u> </u>		le <sub>ali</sub>	nas			Fresno	II	Sacran	nento			466k
X **			Sali	F .	100	km -	15 mg 1	II	San Jo				946k
	7		No. Comp.	*		100	***	I	Carson				55k
			Service Control of the	Soledad	0 =	50	100	1	Fresno	-			495k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.